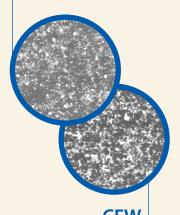
ILJIN Polycrystalline Diamond

Grade

CUFII

Diamond size: 2µm
Diamond content: 90%

Higher wear resistance than CUF



Diamond size: 4µm Diamond content: 90%

Good surface finishing

XUFII

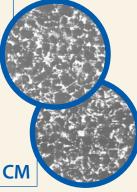
Diamond size: <1 µm
Diamond content: 92%

Excellent impact resistance and easier tool fabrication

CMW

Diamond size: 10µm
Diamond content: 90%

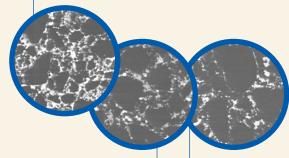
General purpose, easy wire cutting and good impact resistance



CCW

Diamond size: 25µm
Diamond content: 90%
Good wear resistance with

Good wear resistance with special binder and diamond bonding



Diamond size: 10µm Diamond content: 92% General purposes for Al and Al-Si alloy

Wear resistance

CXL

Diamond size: 25µm bi-modal structure

Diamond content: 95%

Excellent wear resistance with strong diamond bonding

CXLII

Diamond size: <40µm Diamond content: 95% Specially designed for superior wear resistance

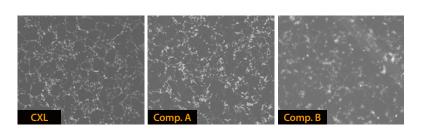


Introduction

- Diamond size: 25 µm bi-modal structure
- · Diamond content: ~95%

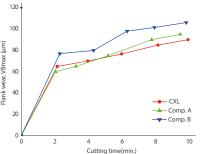
Characteristics & Application

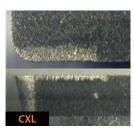
• Excellent wear resistance with strong diamond bonding

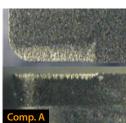


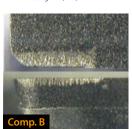
Perfomance - Continuous turning

Material	DURALCAN (AI-20%SiC)
Speed	500m/min
D.O.C	0.5mm
Feed	0.2mm/rev
Coolant	Dry
Insert type	SPGN090304
Holder type	CSDPN2525-M12











XUFI

ILJIN Diamond

Introduction

- Diamond size: $<1\mu\text{m}$
- · Diamond content: ~92%

Characteristics & Application

- Excellent impact resistance and easier tool fabrication
- · Superior uniformity between grains and binders
- Diamond size <1 μ m, diamond content over 90%
- · Optimized sintering processing for controlling microstructures
- Excellent wear, impact and chipping resistance
- · High precision machining and long tool life, good fabrication
- · Applicable Al part and non-ferrous alloy (Ti, Cr, Cu alloy, ceramics, etc.)

Perfomance - Face milling

Material	MMC(Al-20%SiC)
Speed	1,000m/min
D.O.C	0.5mm
Feed	0.25mm/rev
Coolant	Dry
Insert type	CDEW1504R-XAF
Cutter	APD125R-A8Z, Ø125

